

CLAIMS

1. A continuous electrical generator, comprising:
a core having a plurality of slots;
5 an inducing means for inducing a stationary, rotating electromagnetic field, said inducing means being located in the plurality of slots;
an induced means across which is induced electrical energy, said induced means being located in the plurality of slots; and
a power source to supply power to the inducing means.
- 10 2. The continuous electrical generator as described in claim 1 wherein the core is constructed as a unitary structure.
- 15 3. The continuous electrical generator as described in claim 1 wherein the core further comprises:
an internal section; and
an external section wherein the internal section and the external section are assembled together with no gaps or movement between the sections.
- 20 4. The continuous electrical generator as described in claim 1 wherein the core is constructed from a plurality of stacked laminates.
- 25 5. The continuous electrical generator as described in claim 1 wherein the core is made from bonded ferromagnetic powder which is compressed and insulated.
6. The continuous electrical generator as described in claim 1 wherein the core includes a cylindrical solid central portion

7. The continuous electrical generator as described in claim 6 wherein the plurality of slots extends laterally from the cylindrical central portion towards the external edge of the core.

5 8. The continuous electrical generator as described in claim 1 wherein the inducing means is a first set of electrical windings.

9. The continuous electrical generator as described in claim 1 wherein the induced means is a second set of electrical windings.

10 10. The continuous electrical generator as described in claim 8 wherein the first set of electrical windings is in a two-pole arrangement.

11. The continuous electrical generator as described in claim 9 wherein the
15 second set of electrical windings is in a two-pole arrangement.

12. The continuous electrical generator as described in claim 8 wherein the first set of electrical windings are three-phase inducing windings spaced 120 degrees apart.

20 13. The continuous electrical generator as described in claim 9 wherein the second set of electrical windings are three-phase induced windings spaced 120 degrees apart.

25 14. The continuous electrical generator as described in claim 7 wherein the inducing means is located in the slots near the cylindrical central portion.

15. The continuous electrical generator as described in claim 7 wherein the induced means is located in the slots distant from the cylindrical central portion.

5 16. The continuous electrical generator as described in claim 1 further comprising a feed back system for supplying power from the induced means to the generator.

10 17. The continuous electrical generator as described in claim 16 wherein the power source is removed once the feed back system is functioning to supply power to the generator.

18. The continuous electrical generator as described in claim 16 further comprising an adjusting means for adjusting the supplied power.

15 19. The continuous electrical generator as described in claim 16 further comprising a phase shifting means for aligning phase shifts in the supplied power.